

Central Valley Flood Protection Board Update

February 26, 2016

Presented by:

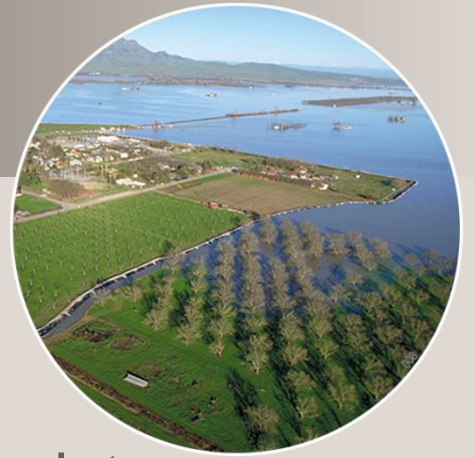
Michael Mierzwa, P.E.

Michael.Mierzwa@water.ca.gov

Lead Flood Management Planner

California Department of Water Resources

Today's Discussion



Where We've Been

- Sacramento Basin-wide Feasibility Study Update

Where We Are

- RFMP Integration into CVFPP

Where We're Going

- Moving from "Selection" to Preliminary Regional Portfolios

Where We've Been

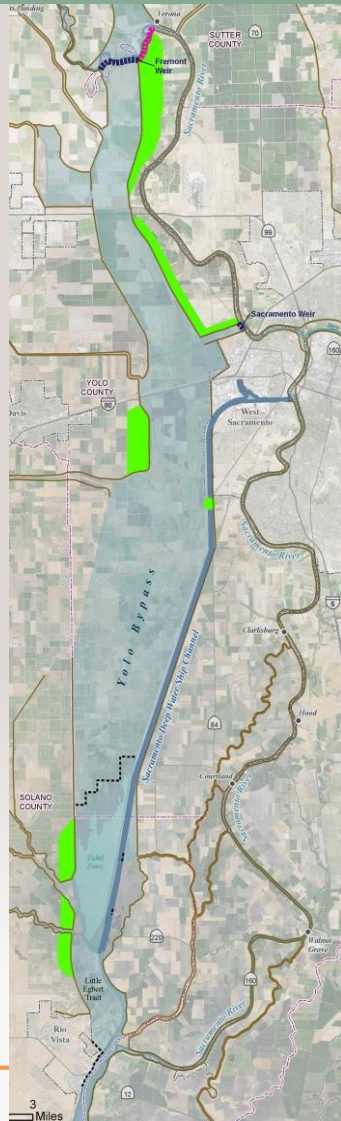
Sacramento Basin-wide Feasibility Study Update

Yolo Bypass Options

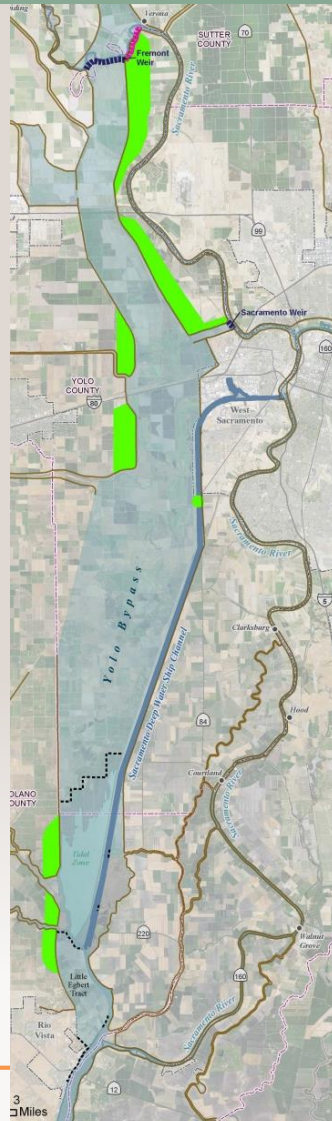
Option 1



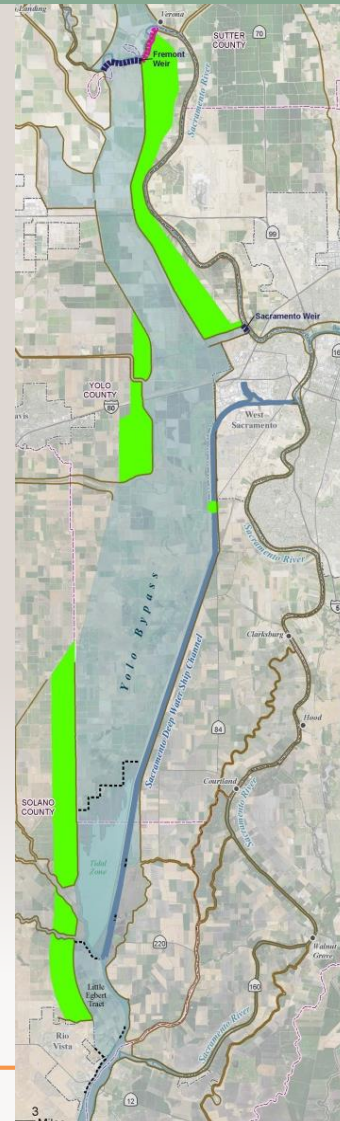
Option 2



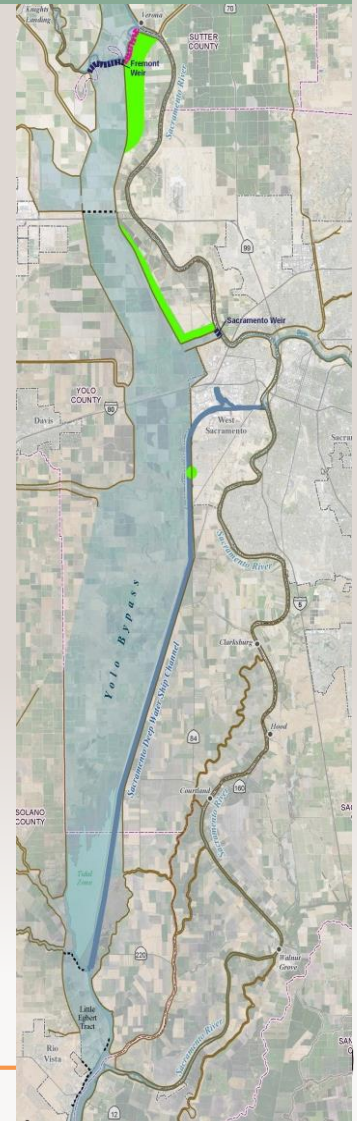
Option 3



Option 4



Regional Option



Yolo Bypass – High Level Summary

Metric	Option 1	Option 2	Option 3	Option 4	Regional Option
Flood Risk Management	Medium	Medium	High	High	High
Ecosystem Functions	High	High	High	Very High	Medium
Other Benefits	Low	Medium	Medium	Medium	Low
Agricultural Stewardship	Medium	Medium	Medium	Low	High
Cost (\$ Billions)	\$1.7-2.2	\$1.8-2.3	\$1.9-2.5	\$2.4-3.1	\$1.6-2.0

Initial Tentatively
Recommended Option

- *Revised* Tentatively Recommended Option developed following stakeholder input

Where We Are

RFMP Integration into CVFPP



2017 ROADMAP



RFMP Engagement

- In follow up to September 2015 Listening Tours, briefings with all six regions are underway
- Focus of meetings:
 - Define opportunities in each region and estimate resources needed to achieve them
 - Develop shared understanding of CVFPP development process and status
 - Develop shared understanding about how regional actions will be incorporated into the 2017 CVFPP Update
- Goal is to continue to work with RFMPs to refine management actions and begin building portfolios

Key Areas of Discussion

- Building a State Plan of Flood Control Investment Portfolio
- Mapping Actions to Outcomes
- Refining Management Actions

State-Recommended Investment Portfolio

- 2017 CVFPP Update will include a State-Recommended Investment Portfolio informed by regional, system-wide portfolios
- Will represent a diversity of outcomes, actions and costs
- Will be basis/justification for State recommendations for funding and define needed program investments
- *Not a funding decision, permitting decision or endorsement for specific projects

CVFPP 2017
Update



Anticipated 2017 CVFPP Update Investment Portfolio

CVFPP Investment Component	Total Estimated Costs (in Billions)
Sacramento System wide	≈ \$2.0
San Joaquin System wide	≈ \$2.0
Yolo Bypass Improvements	≈ \$2.5
Regional Improvements	≈ \$8-10
Residual Risk Improvements	≈ \$2.0
TOTAL	≈ \$16-18.5

*Note: The above is a sample; the Investment Portfolio will be more refined with completion of the 2017 CVFPP Investment Strategy.

Mapping Actions to Outcomes



- Characterizing an actions' ability to provide public benefit is key to raising funds for implementation
- In “outcome-based” planning:
 - Investment linked to *intended outcomes*
 - Success measured by degree to which specific actions help contribute to *intended outcomes*
- Emphasizes measurement of results; continually evolves toward more effective investments
- Water management helps achieve intended outcomes through specialized programs, each with program-specific goals

Intended Outcomes for California Water Management



What Californians Expect from State Government

DRIVES

PUBLIC POLICIES & INTENT

California Water
Action Plan

California Water Plan



DIRECTS

DWR Programs & Projects

SGMA

Flood

Supply

Etc.

CVFPP

SFMP

Etc.

CVFPP Goals Consistent in 2017 Update

CVFPP GOALS

Primary Goal: Improve flood risk management

- Reduce the chance of flooding
- Reduce damages once flooding occurs
- Improve public safety, preparedness, and emergency response

Supporting Goals

- Improve Operations and Maintenance
- Promote Ecosystem Functions
- Promote Multi-benefit Projects
- Improve Institutional Support

Achieving CVFPP Goals Can Lead to Broader Intended Outcomes

CVFPP GOALS	INTENDED OUTCOMES
Primary Goal: Improve flood risk management	
Reduce the chance of flooding	  
Reduce damages once flooding occurs	
Improve public safety, preparedness, and emergency response	
Supporting Goals	
Improve Operations and Maintenance	  
Promote Ecosystem Functions	   
Promote Multi-benefit Projects	   
Improve Institutional Support	   

OM_002

Improving State Investment Over Time



TRACKING compares **actual** and **intended** outcomes

Management Actions contribute to Achieving Outcomes



OMRR&R



Finance



**Flood
Infrastructure**



**Reservoir and
Floodplain Storage**



**Emergency
Management**



**Floodplain and
Ecosystem Functions**



Permitting



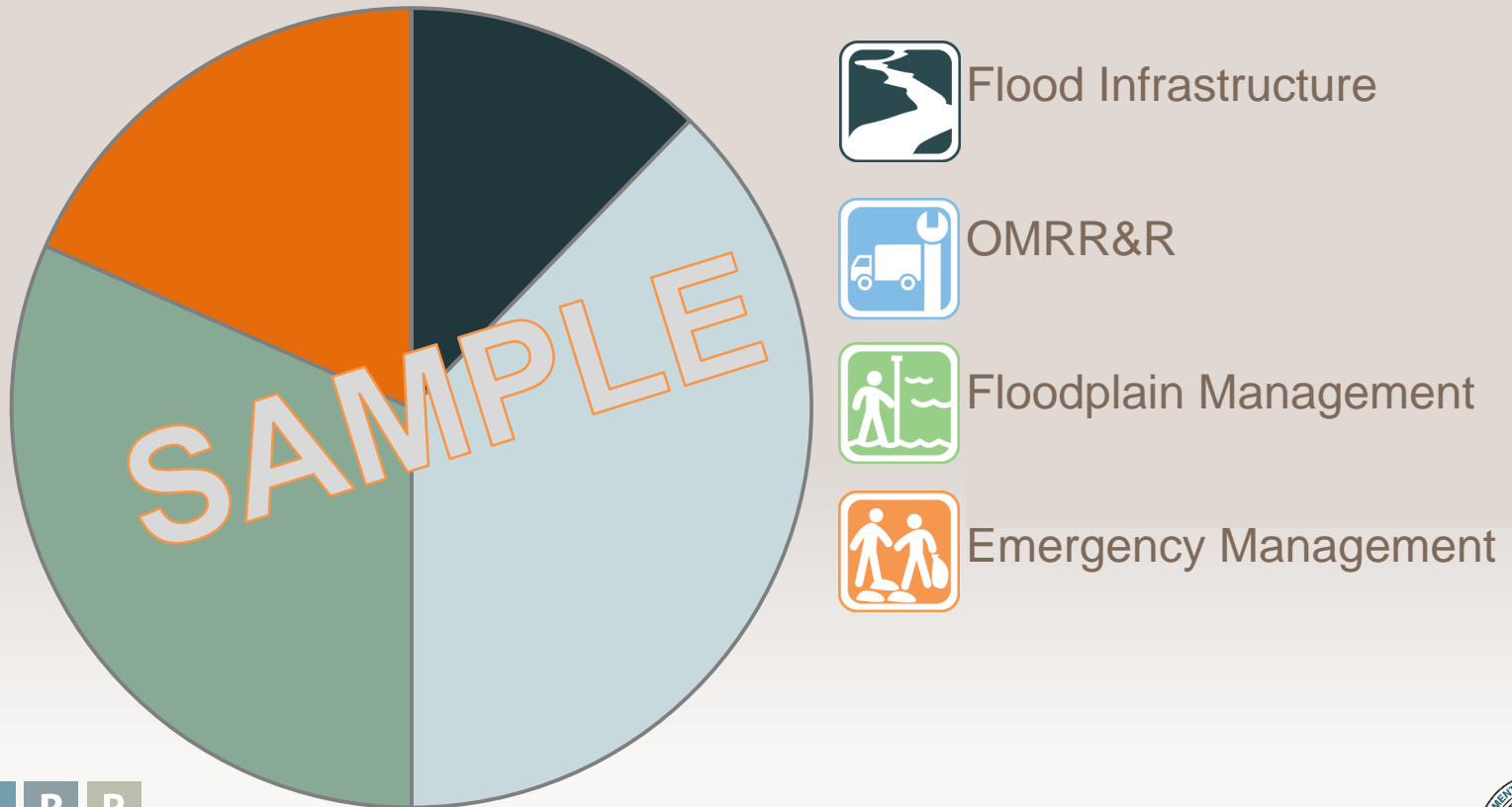
Policy



**Floodplain
Management**

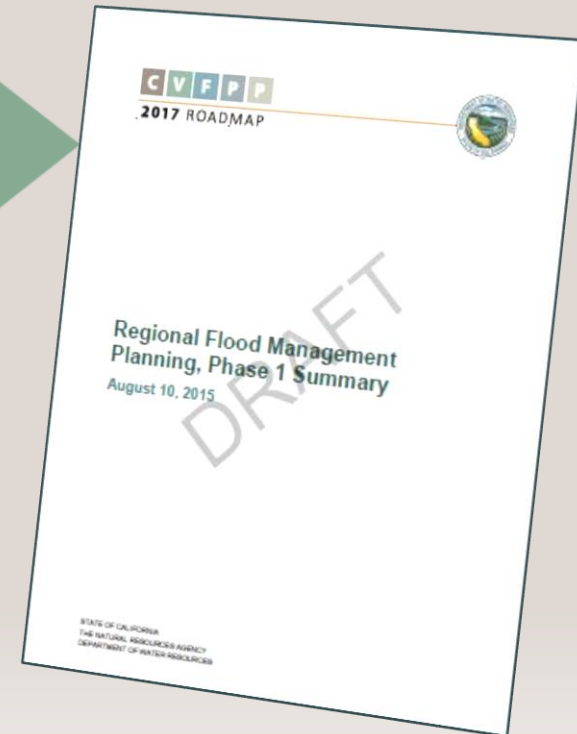
Refining Management Actions – Balanced Investment Portfolios

- State-Recommended Investment Portfolio will include a diverse set of management actions with potential to deliver measureable intended outcomes

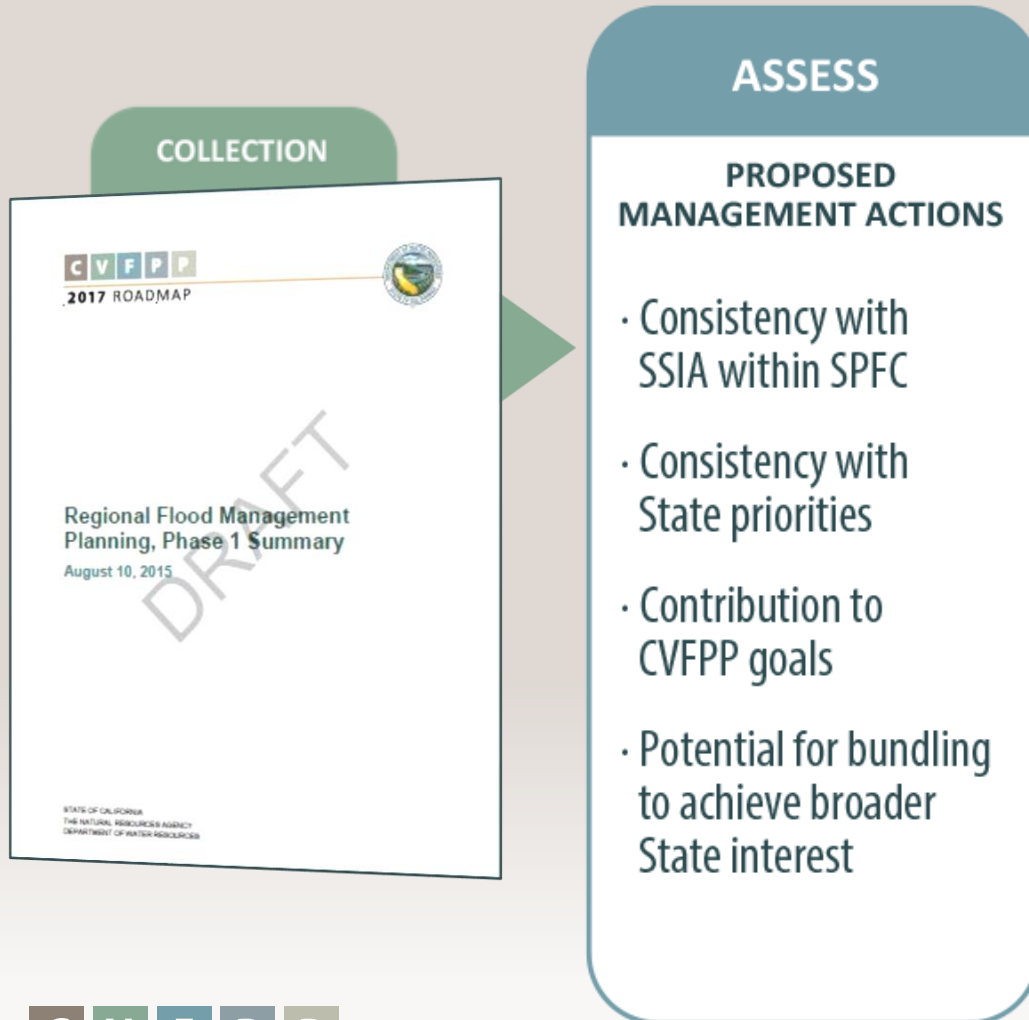


Building a Regional Portfolio: *Collection*

- RFMPs provide comprehensive thinking about local flood management challenges and opportunities
- Regional plans summarized by DWR in Fall 2015 and became the “Collection”

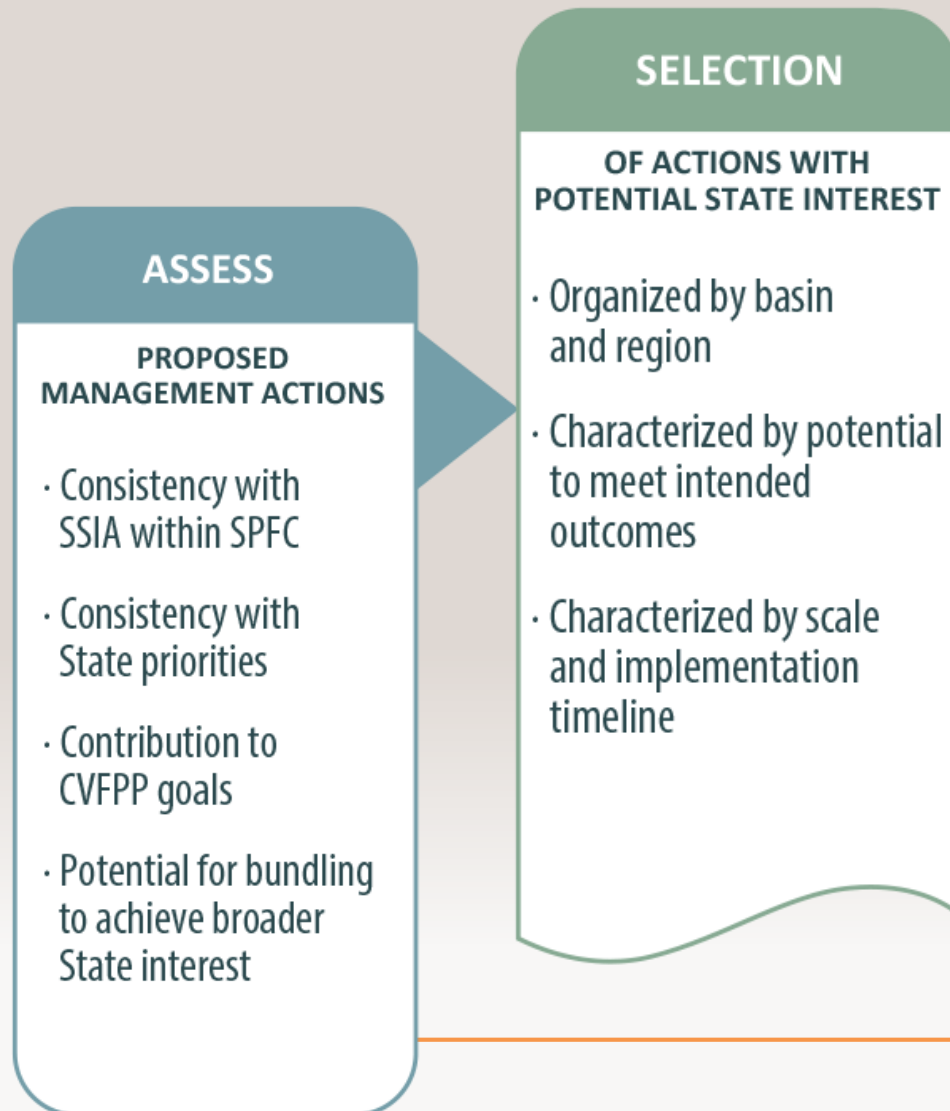


Building a Regional Portfolio: Assess



- RFMP-identified projects assessed on an individual basis and potentially removed from the “Collection”

Building a Regional Portfolio: *Selection*



- Resulting refined list of management actions called the “Selection”
- This list is tentative and subject to input by the regions

Example Results

		Regional Management Actions	
		# of Actions Removed	# of Actions Remaining
Collection	Refinement Process		
	Originally Provided by Region:	0	50
Selection	Consistency with SSIA, State Priorities, and Relevance to SPFC:	40	10

		Studies/Plans/Analysis/Mapping	
		# of Actions Removed	# of Actions Remaining
Collection	Refinement Process		
	Originally Provided by Region:	0	10
Selection	Consistency with SSIA, State Priorities, and Relevance to SPFC:	3	7

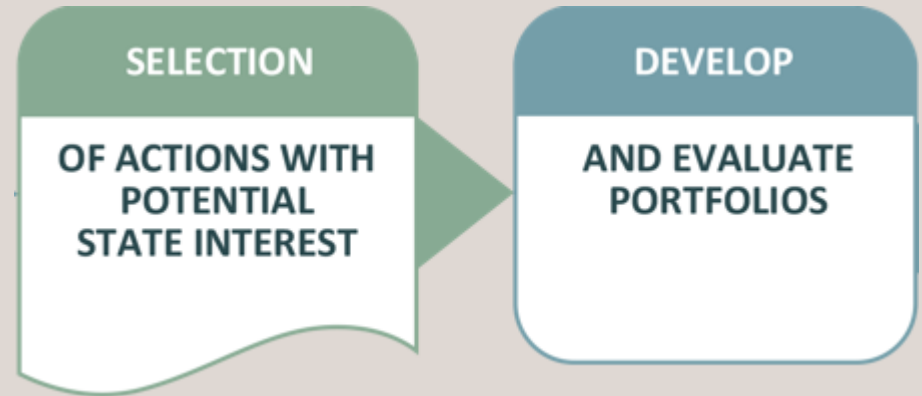
EXAMPLE ONLY

Where We're Going

Moving from “Selection” to Preliminary Regional Portfolios

Moving from “Selection” to Preliminary Regional Portfolios

- DWR developing method to evaluate projects in the “Selection” for their potential to contribute to intended outcomes
 - Evaluation based on CVFPP primary/supporting goals
 - Evaluation considers overall CVFPP “reasonable ask”
- Projects with high potential to contribute to intended outcomes will be used to develop preliminary regional portfolios



Portfolio Refinement

- Process to refine and build regional portfolios is imperfect, but a starting point for discussion
- Process attempts to look at the highly diverse set of regional management actions in an efficient and cohesive manner
- Process is iterative – the regions are invited to be actively engaged and propose changes, revisions
- Portfolios will be continually revised, and formally updated every five years (2022, 2027, etc.)

High-Level Feedback from Regions

- Regions have desire to discuss in finer detail CVFPP structure and possible policy implications; investment approach
- Additional discussion needed about recommended investments across the two basins
- Areas of agreement need to be highlighted and areas of disagreement need to be worked through
- Establishment of a common/baseline hydrology important

Next Steps

- Regions currently reviewing the tentative “Selection”
 - Are there any regionally significant management actions missing from the list?
 - If so, why should they be included?
- Continued engagement to further refine list and ultimately move to development of preliminary regional portfolios
- Next round of regional engagement planned for mid-late March 2016

Central Valley Flood Protection Board Update

February 26, 2016

Presented by:

Michael Mierzwa, P.E.

Michael.Mierzwa@water.ca.gov

Lead Flood Management Planner

California Department of Water Resources